

SONY

Active Subwoofer

SA-W3800/SA-W3000/
SA-W2500

2-899-141-11(1)



* 2 8 9 9 1 4 1 1 1 * (1)

English

Owner's Record

The model number and serial numbers are located on the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

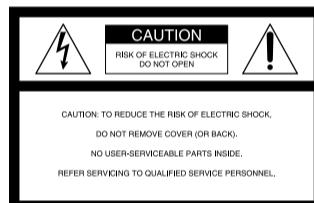
To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

Install this system so that the power cord can be unplugged from the wall socket immediately in the event of trouble.

NOTICE FOR THE CUSTOMERS IN THE U.S.A.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

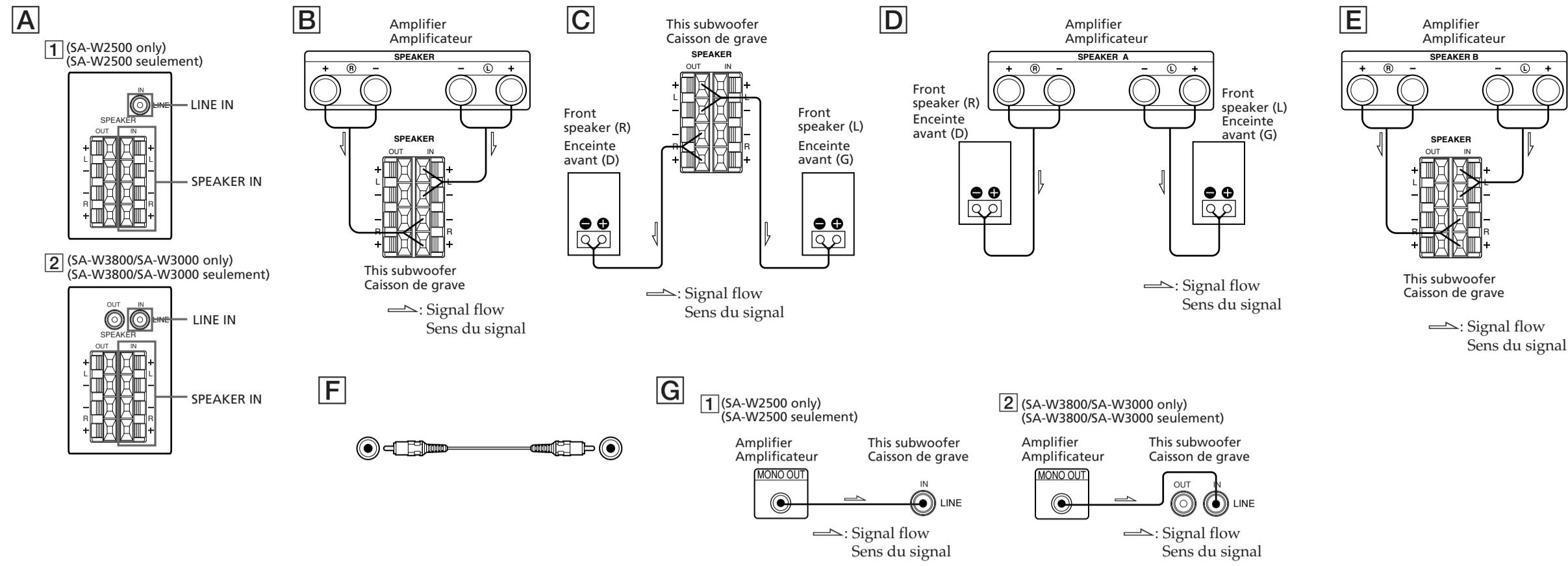
CAUTION
You are cautioned that any changes or modification not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Note to CATV system installer:
This reminder is provided to call CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

CAUTION
Use of this appliance with some systems may present a shock or fire hazard. Do not use with any units which have the following marking located near output.

WARNING: HAZARDOUS ENERGY!



Precautions

On safety

- Before operating the subwoofer, be sure that the operating voltage of your subwoofer is identical with that of your local power supply.
- Unplug the subwoofer from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull the cord by grasping the plug. Never pull the cord itself.
- Should any liquid or solid object fall into the subwoofer, unplug the subwoofer and have the subwoofer checked by qualified personnel before operating it any further.
- AC power cord must be changed only at the qualified service shop.

When turning on or off an amplifier or other equipment

Lower the volume of the amplifier to minimum.

To avoid damaging the subwoofer

- Be careful in setting the volume control of the amplifier to avoid an excessive input power.
- Do not attempt to open the enclosure or remove speaker units and networks.
- Do not press the dust cap intentionally or unintentionally.

In case color irregularity is observed on the nearby TV screen

With the magnetically shielded type of the speaker system, the subwoofer can be installed near a TV set. However, color irregularity may still be observed on the TV screen depending on the type of your TV set.

If color irregularity is observed...

- Turn off the TV set once, then turn it on after 15 to 30 minutes.

If color irregularity is observed again...

- Place the subwoofer further apart from the TV set.

When howling occurs

Relocate the speaker or turn down the volume of the amplifier.

On installation

- Do not install the subwoofer near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Good ventilation is essential to prevent internal heat build-up in the subwoofer. Place the subwoofer in a location with adequate air circulation. Do not place the subwoofer on a soft surface or too close to a wall as this may obstruct the ventilation hole on the back.
- Use caution when placing the subwoofer on a specially treated (waxed, oiled, polished, etc.) floor, as staining or discoloration may result.
- Take care to avoid any possible injury on the corners of the subwoofer.



On cleaning the cabinet

Clean the cabinet with a soft cloth lightly moistened with water. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

If you have any questions or problems concerning your subwoofer that is not covered in this manual, please consult your nearest Sony dealer.

Installation

Since the human ear cannot detect the direction and position where the bass sound being reproduced by a subwoofer (below 200 Hz) comes from, you can install the subwoofer wherever you like in your room. To obtain a better bass reproduction, we recommend you to install the subwoofer on a solid floor where the resonance is unlikely to occur.

You can obtain a sufficient heavy bass reproduction from a single subwoofer. However if you use a couple of the subwoofers, you can obtain an even more effective heavy bass reproduction.

Notes

- Always install the subwoofer vertically, keeping a few centimeters away from the wall.
- Do not place an object on the subwoofer or sit on it.
- If the subwoofer is installed in the center of a room, the bass could be extremely weakened. This is due to the influence of the standing wave of the room. If this happened, move the subwoofer away from the center of a room or eliminate the cause of the standing wave by installing a bookshelf on the wall, etc.

Hooking Up the System

Overview

Use the LINE IN jacks or the SPEAKER IN terminals of the subwoofer when you connect the amplifier (A).

- If your amplifier has one of the following types of output jacks, connect the LINE IN jack and the amplifier's jack using the supplied audio connecting cord.
 - MONO OUT jack
 - MIX OUT jack
 - SUBWOOFER output jack(s)
 - SUPER WOOFER output jack(s)
- If your amplifier does not have the above mentioned output jacks, connect the speaker terminals of the amplifier to the SPEAKER IN terminals instead.

Before you get started

- Turn off the power of the amplifier and the subwoofer before making any connection.
- Use the audio connecting cords that are supplied to the respective equipment. If there are not enough audio connecting cords to make the necessary connections, you need to purchase some optional audio connecting cords.
- Be sure to make connections firmly to avoid noise.
- Connect the AC power cord from the subwoofer to a wall outlet.
- You cannot connect the CENTER output jack for use with Dolby Pro Logic function to the subwoofer. Bass sound is not output with some Dolby Pro Logic modes.

Connecting to an amplifier with a single set of speaker terminals

Connect the subwoofer to the amplifier and then connect the front speakers to the subwoofer.

1 Connect the subwoofer to the amplifier. (B)

Connect the SPEAKER IN terminals of the subwoofer to the amplifier's speaker terminals with the speaker cords. Be sure to connect both L and R channels.

2 Connect the front speakers to the subwoofer. (C)

Connect the speakers to the SPEAKER OUT terminals of the subwoofer.

Connecting to an amplifier with double (A+B) sets of speaker terminals

If your amplifier has double (A+B) sets of speaker terminals, connect both the subwoofer and the front speakers to the amplifier.

1 Connect the front speakers to the amplifier. (D)

Connect the speakers to your amplifier's SPEAKER A terminals.

2 Connect the subwoofer to the amplifier. (E)

Connect the SPEAKER IN terminals of the subwoofer to the amplifier's SPEAKER B terminals using speaker cords (not supplied).

When using the double (A+B) sets of speakers, make sure that you select the "A+B" position with your amplifier.

Note

When you are using SPEAKER A terminals only (front speaker only) or when the power of the amplifier is turned off, turn down the volume or turn off the power of the subwoofer otherwise, hum noise may be heard.

Connecting to an amplifier with a special jack for a subwoofer

If your amplifier has a special jack for a subwoofer (like a MONO OUT jack, MIX OUT jack, SUBWOOFER jack or SUPER WOOFER jack), connect the LINE IN jack of the subwoofer to one of those jacks using the supplied audio connecting cord. (F)

Hookups

Connect the MONO OUT jack of your amplifier to the LINE IN jack of the subwoofer with the supplied audio connecting cord. (G)

Note

If the output level of your amplifier is not large enough, the sound may not be loud enough. In this case, connect the speaker terminals of the amplifier directly to the SPEAKER IN terminals of the subwoofer.

French

AVERTISSEMENT

Afin de réduire les risques d'incendie et de choc électrique, ne pas exposer cet appareil à la pluie ni à l'humidité.

Pour prévenir tout risque d'incendie, ne couvrez pas les orifices d'aération de l'appareil avec des journaux, nappes, rideaux, etc. Et ne placez pas de bougies allumées sur l'appareil. Pour prévenir tout risque d'électrocution ou d'électrocution, ne posez aucun objet rempli de liquide, comme un vase, sur l'appareil. Pour prévenir tout risque d'électrocution, n'ouvez jamais le coffret. Adressez-vous à un personnel qualifié uniquement pour toute intervention sur l'appareil.

N'installez pas l'appareil dans un espace confiné comme dans une bibliothèque ou un meuble encastré.

Installez ce caisson de grave de manière à pouvoir débrancher immédiatement le cordon d'alimentation de la prise secteur en cas de problème.

Précautions

Sécurité

- Avant d'utiliser le caisson de grave, vérifiez que sa tension de fonctionnement est identique à celle du secteur local.
- Si vous prévoyez de ne pas utiliser le caisson pendant longtemps, débranchez-le de la prise murale. Pour débrancher le cordon d'alimentation secteur, tirez sur la fiche. Ne jamais tirer sur le cordon proprement dit.
- Si un liquide ou un solide tombait dans le coffret, débranchez le caisson et faites-le contrôler par un technicien qualifié avant de le remettre en service.
- Le cordon d'alimentation secteur doit être changé par un professionnel seulement.

Avant d'allumer ou d'éteindre l'amplificateur ou un autre appareil

N'oubliez pas de baisser complètement le volume.

Pour éviter d'endommager le caisson de grave

- Réglez avec soin le volume de l'amplificateur pour éviter toute entrée de son excessive.
- Ne pas essayer d'ouvrir le coffret ou de modifier les haut-parleurs et les circuits.
- Ne pas appuyer sur le cache-poussière, ni intentionnellement ni par erreur.

Si vous observez des anomalies de couleurs sur l'écran du téléviseur installé à proximité du caisson

Le caisson de graves peut être installé près d'un téléviseur car ce système acoustique est à blindage magnétique. Mais il est possible d'observer des anomalies de couleurs avec certains types de téléviseur.

Si vous observez des anomalies de couleurs...

- Eteignez le téléviseur, puis rallumez-le 15 à 30 minutes plus tard.

S'il n'y a aucun changement...

- Placez le caisson de graves un peu à l'écart du téléviseur.

En cas de réaction acoustique

Changez l'emplacement des enceintes ou baissez le volume de l'amplificateur.

Installation

• Ne pas installer le caisson de grave près d'une source de chaleur, comme un radiateur ou une bouche d'air chaud, dans un endroit en plein soleil ou exposé à la poussière, des vibrations ou des chocs mécaniques.

• Une bonne ventilation est essentielle pour éviter une surchauffe interne du caisson. Installez le caisson dans un endroit où la circulation d'air est suffisante. Ne pas l'installer sur une surface molle ou trop près d'un mur pour ne pas boucher l'orifice de ventilation à l'arrière du caisson.

• Faites attention si le caisson de graves doit être posé sur une sol traité (cire, huile, poli, etc.) car il peut salir ou décolorer le sol.

• Veillez à ne pas vous blesser en heurtant les coins du caisson.



Nettoyage du coffret

Nettoyez le coffret avec un chiffon doux légèrement imprégné d'eau. Ne pas utiliser de tampons abrasifs, poudre à récurer ou diluant, comme l'alcool ou la benzine.

Pour toute question ou problème au sujet du caisson de grave, veuillez contacter votre revendeur Sony le plus proche.

Raccordement à un amplificateur avec double paire (A + B) de bornes d'enceintes

Si votre amplificateur possède une double paire de bornes d'enceintes (A + B), raccordez le caisson de grave et les enceintes avant à l'amplificateur.

- Raccordez les enceintes avant à l'amplificateur. (D)

Raccordez les bornes SPEAKER IN du caisson de grave aux bornes SPEAKER A de votre amplificateur.

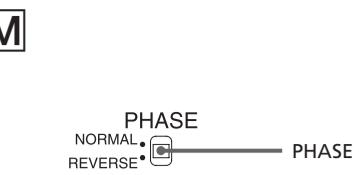
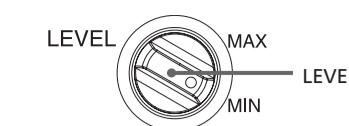
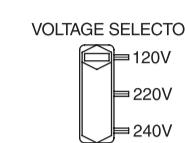
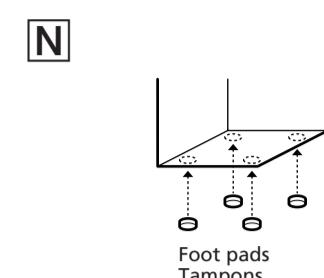
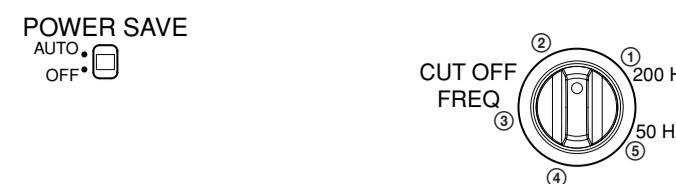
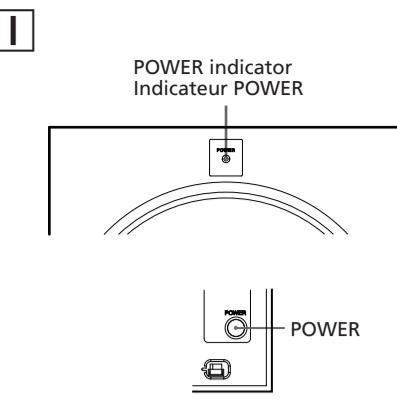
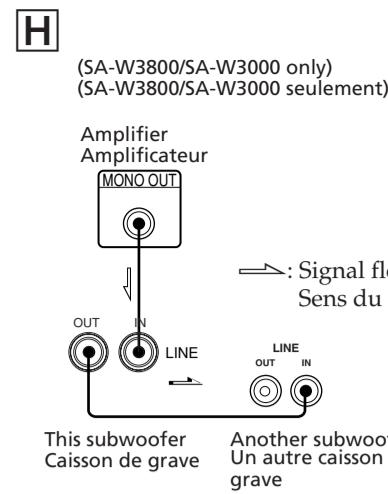
- Raccordez le caisson de grave à l'amplificateur. (E)

Raccordez les bornes SPEAKER IN du caisson de grave aux bornes SPEAKER B de l'amplificateur avec des cordons d'enceintes (non fournis).

Quand vous utilisez la double paire de prises (A + B), veillez à sélectionner la position « A + B » sur l'amplificateur.

Remarque

Lorsque vous utilisez les bornes SPEAKER A seulement (enceintes avant seulement) ou lorsque l'amplificateur est éteint, réduisez le volume du caisson de grave, ou éteignez-le, sinon le bruit sera audible.



English

When using two or more subwoofers (H)

(SA-W3800/SA-W3000 only)

Connect the MONO OUT jack of your amplifier to the LINE IN jack of this subwoofer. Then, use the supplied audio connecting cord to connect the LINE OUT jack of this subwoofer to the LINE IN jack of another subwoofer.

Connecting the AC power cord

- Connect the AC power cord from the subwoofer and from your amplifier to a wall outlet.
- Make sure that power to the subwoofer is turned off before you plug in or unplug any power cord.

Listening to the Sound (I)

- Turn on the amplifier and select the program source.

- Press POWER.

The subwoofer turns on and the POWER indicator lights up in green.

- Play the program source.

Adjust the VOLUME so that sound from the front speakers is not distorted. If it is distorted, the sound from the subwoofer will also be distorted.

To turn on and off the power automatically — Auto power on/off function (J)

When the subwoofer is on (i.e., the POWER indicator lights up green) and there is no signal input for about seven minutes, the POWER indicator changes to red and the subwoofer enters power saving mode. While in this mode a signal is input to the subwoofer, the subwoofer automatically turns on (auto power on/off function). To turn this feature off, slide the POWER SAVE switch on the rear panel to OFF.

Notes

- Never set the amplifier's tone control (BASS, TREBLE, etc.) or the equalizer output to a high level or input sine curves of 20 Hz to 50 Hz recorded on a commercially-available test disc or special sound (bass sound of electronic musical instrument, pop noise of analog disc turntable, sound with abnormally enhanced bass, etc.) in a high level to this unit. These actions may cause damage to the speakers. When a special disc containing abnormally enhanced bass is played, noise may be output in addition to the original sound. In such a case, decrease the sound level.
- The subwoofer output signal (DOLBY digital signal) of the digital surround processor sold singularly is set 10 dB higher by Dolby Laboratories Licensing Corporation. In the case of using normally, adjust the subwoofer level.
- If you turn down the volume level of the amplifier too low, the auto power on/off function may activate, causing the subwoofer to enter power saving mode.

Adjusting the Sound

You can adjust the sound of the subwoofer to suit the sound of your front speakers. Reinforcing the bass sound gives you a greater sense of atmosphere.

- Adjust the cut-off frequency. (K)

Turn the CUT OFF FREQ control, depending on the reproduction frequencies of your front speakers. Refer to the following when adjusting.

- Typical very small sized speakers: 4-5 cm (1 5/8 - 2 in.) dia.
- Typical small sized speakers: 6-8 cm (2 3/8 - 3 1/8 in.) dia.
- Typical medium sized speakers: 9-15 cm (3 5/8 - 5 7/8 in.) dia.
- Typical large sized speakers: 16-24 cm (6 3/8 - 9 1/2 in.) dia.
- Typical very large sized speakers: more than 25 cm (9 7/8 in.) dia.

To make the most of the low level converter function
When playing back the sound of LFE signals, Dolby digital, or DTS, we recommend to set the CUT OFF FREQ control to 200Hz (maximum) to obtain the best performance from the low level converter function.

- Adjust the volume level of the subwoofer. (L)

Turn the LEVEL control so that you can hear the bass sound a little more than before. To increase the volume, turn the control clockwise. To decrease the volume, turn the control counterclockwise.

- Play your favorite song and movie.

Male vocal tunes and voice containing bass sounds are most suitable for adjustment. Turn the volume for front speakers to the same level as usual.

- Select the phase polarity. (M)

Use the PHASE selector to select the phase polarity.

- Repeat steps 1 to 4 to adjust for your preference.

Once you have adjusted the subwoofer to the settings you desire, use the VOLUME control on the amplifier to adjust the volume of the subwoofer with that of the other speakers. You don't need to adjust the subwoofer settings when you change the volume level of the amplifier.

Inputs

Input jacks LINE IN: input pin jack
SPEAKER IN: input terminals

Output jacks LINE OUT: output pin jack
SPEAKER OUT: output terminals

General

Power requirements

North American models: 120 V AC, 60 Hz
South American models: 120/220/240 V AC, 50/60 Hz

European models: 230 V AC, 50/60 Hz

Australian models: 240 V AC, 50 Hz

Other models: 230-240 V AC, 50/60 Hz

Power consumption

100 W

Dimensions Approx. 440 x 495 x 512 mm (17 7/8 x 19 1/2 x 20 1/4 in.) (w/h/d)

Mass Approx. 23 kg (50 lb 12 oz)

Supplied accessories

Foot pads (4)
Audio connecting cord (1 phono - 1 phono), 2 m (6 ft 6 1/2 in.) (1)

SA-W3000

AUDIO POWER SPECIFICATIONS For the U.S.A. model

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, from 20 - 200 Hz; rated 100 W, minimum RMS power, with no more than 1 % total harmonic distortion from 250 milliwatts to rated output.

System

Type Active Subwoofer, (magnetically shielded design)

Speaker unit Woofer: 30 cm dia. (11 7/8 in.), cone type

Continuous RMS output

South American models 160 W (6 ohms, 80 Hz, 10% THD)

Other models 180 W (6 ohms, 80 Hz, 10% THD)

Reproduction frequency range

20 Hz - 200 Hz

High frequency cut-off frequency

50 Hz - 200 Hz

Phase selector

NORMAL, REVERSE

Inputs

Input jacks LINE IN: input pin jack
SPEAKER IN: input terminals

Output jacks LINE OUT: output pin jack
SPEAKER OUT: output terminals

General

Power requirements

North American models: 120 V AC, 60 Hz

South American models: 120/220/240 V AC, 50/60 Hz

Australian models: 240 V AC, 50 Hz

Korean models: 220 - 230 V AC, 50/60 Hz

Other models: 230 - 240 V AC, 50/60 Hz

Power consumption

100 W

Dimensions Approx. 360 x 425 x 421 mm (14 1/8 x 16 3/4 x 16 1/2 in.) (w/h/d)

Mass Approx. 16 kg (35 lb 5 oz)

Supplied accessories

Foot pads (4)
Audio connecting cord (1 phono - 1 phono), 2 m (6 ft 6 1/2 in.) (1)

SA-W2500

AUDIO POWER SPECIFICATIONS For the U.S.A. model

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, from 28 - 200 Hz; rated 60 W, minimum RMS power, with no more than 1 % total harmonic distortion from 250 milliwatts to rated output.

System

Type Active Subwoofer, (magnetically shielded design)

Speaker unit Woofer: 25 cm dia. (9 7/8 in.), cone type

Continuous RMS output

South American models 90 W (6 ohms, 80 Hz, 10% THD)

Other models 100 W (6 ohms, 80 Hz, 10% THD)

Reproduction frequency range

28 Hz - 200 Hz

High frequency cut-off frequency

50 Hz - 200 Hz

Phase selector

NORMAL, REVERSE

Inputs

Input jacks LINE IN: input pin jack
SPEAKER IN: input terminals

Output jacks LINE OUT: output pin jack
SPEAKER OUT: output terminals

General

Power requirements

North American models: 120 V CA, 60 Hz

South American models: 120/220/240 V CA, 50/60 Hz

European models: 230 V AC, 50/60 Hz

Australian models: 240 V AC, 50 Hz

Korean models: 220 - 230 V CA, 50/60 Hz

Other models: 230 - 240 V AC, 50/60 Hz

Power consumption

70 W

Dimensions Approx. 290 x 350 x 391 mm (11 1/8 x 13 3/4 x 15 3/8 in.) (w/h/d)

Mass Approx. 10 kg (22 lb 1 oz)

Supplied accessories

Foot pads (4)
Audio connecting cord (1 phono - 1 phono), 2 m (6 ft 6 1/2 in.) (1)

Design and specifications are subject to change without notice.

French

Si vous utilisez deux haut-parleurs d'extrêmes-graves ou plus (H)

(SA-W3800/SA-W3000 seulement)

Reliez la prise MONO OUT de votre amplificateur à la prise LINE IN de ce caisson de graves. Ensuite pour relier la prise LINE OUT de ce caisson de graves à la prise LINE IN d'un autre caisson de graves, utilisez le cordon de liaison audio fourni.

Raccordement du cordon d'alimentation secteur

- Branchez le cordon d'alimentation secteur du caisson de grave et de l'amplificateur sur une prise murale.
- Assurez-vous que le caisson de grave est hors tension avant de brancher ou de débrancher un câble d'alimentation.

Pour écouter le son (I)

- Allumez l'amplificateur et sélectionnez la source de programme.

- Appuyez sur POWER.

Le caisson est mis sous tension et l'indicateur POWER s'allume en vert.

- Reproduisez la source de programme. Ajustez VOLUME pour que le son des enceintes avant soit sans distorsion.

Si le son des enceintes avant présente une distorsion, il en sera de même du son du caisson de grave.

Mise sous et hors tension automatique — Fonction de mise sous/hors tension automatique (J)

Si le caisson de grave est sous tension (si l'indicateur POWER s'allume en vert) et si aucun signal n'est entré pendant environ sept minutes, l'indicateur POWER devient rouge et le caisson de grave passe en mode d'économie d'énergie. Si, dans ce mode, un signal est entré sur le haut-parleur, le haut-parleur se met automatiquement sous tension (fonction de mise sous/hors tension automatique).